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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/510,558	10/07/2004	Makoto Iida	5616-0096WOUS	9234
7590 10/06/2005			EXAMINER	
McCormick Pa	aulding & Huber	HARRIS, KATRINA B		
185 Asylum Str City Place II	eet		ART UNIT	PAPER NUMBER
Hartford, CT	06103-3402	•	3747	

DATE MAILED: 10/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		1
	Application No.	Applicant(s)
	10/510,558	IIDA, MAKOTO
Office Action Summary	Examiner	Art Unit
	Katrina B. Harris	3747
	nunication appears on the cover sheet wi	ith the correspondence address
Period for Reply	N FOR REPLY 10 OFT TO EVENE A 14	
<ul> <li>Failure to reply within the set or extended period for re</li> </ul>	E MAILING DATE OF THIS COMMUNIC ions of 37 CFR 1.136(a). In no event, however, may a rommunication.  In statutory period will apply and will expire SIX (6) MON eply will, by statute, cause the application to become AB ths after the mailing date of this communication, even if	CATION.  reply be timely filed  ITHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s)	filed on 07 October 2004	
2a)☐ This action is <b>FINAL</b> .	2b)⊠ This action is non-final.	
<u>'</u>	on for allowance except for formal matt	ers, prosecution as to the merits is
	actice under <i>Ex parte Quayle</i> , 1935 C.D	• •
Disposition of Claims	·	•
4)⊠ Claim(s) <u>1-13</u> is/are pending in th	e application.	
	s/are withdrawn from consideration.	
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-13</u> is/are rejected.		
7) Claim(s) is/are objected to		
8) Claim(s) are subject to res	striction and/or election requirement.	
Application Papers		
9)☐ The specification is objected to by	the Examiner.	
10) The drawing(s) filed on is/a	re: a)☐ accepted or b)☐ objected to	by the Examiner.
Applicant may not request that any of	bjection to the drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).
_ '	ling the correction is required if the drawing	• • • • • • • • • • • • • • • • • • • •
11) The oath or declaration is objected	d to by the Examiner. Note the attached	d Office Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12)⊠ Acknowledgment is made of a cla	im for foreign priority under 35 U.S.C. §	} 119(a)-(d) or (f).
a)⊠ All b)⊡ Some * c)⊡ None of		
1.⊠ Certified copies of the prior	ity documents have been received.	
	ity documents have been received in A	
•	es of the priority documents have been	received in this National Stage
	ational Bureau (PCT Rule 17.2(a)).	
See the attached detailed Office at	ction for a list of the certified copies not	received.
Attachment(s)		
1) Notice of References Cited (PTO-892)	4) 🔲 Interview S	Summary (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review	w (PTO-948) Paper No(s	s)/Mail Date
<ol> <li>Information Disclosure Statement(s) (PTO-1449 Paper No(s)/Mail Date <u>10/7/04</u>.</li> </ol>	9 or PTO/SB/08) 5) \( \bigcap \) Notice of it \( 6) \( \bigcap \) Other: \( \bigcap \)	nformal Patent Application (PTO-152)

Application/Control Number: 10/510,558

Art Unit: 3747

## **DETAILED ACTION**

The following is a first action on the merits of application serial no. 10/510,558 filed October 7, 2004.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over lwata (5,975,032). Iwata discloses a cylinder head having a cooling water pipe (110) inside, wherein the cooling water pipe is inserted and has outlet openings respectively placed in a position around a fuel injection nozzle and in a position between ports.

Regarding claims 3 and 4, Iwata does not disclose an aluminum pipe. It would have been obvious to one of ordinary skill in the art at the time of the invention to use aluminum in the invention of Iwata since such a modification would amount to mere variation in the materials.

Regarding claim 5, Iwata does not show one cooling water pipe per cylinder. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Iwata to have multiple pipes since duplication of parts only require mere skill in the art.

## Communication

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Katrina B. Harris whose telephone number is 571-272-4842. The examiner can normally be reached on 6:30 AM -3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Yuen can be reached on 571-272-4856. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Katrina B. Harris

Examiner

Art Unit 3747

**KBH** 

MAHMOUD GIMIE